

Safety Data Sheet
CompoSol® CRC (Part A)

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: CompoSol® CRC (Part A)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Component of epoxy coating

Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet

Supplier: NRI
3875 Fiscal Court Suite #100
Riviera Beach, FL 33404. USA.
1- 561 - 683 - 6992

E-mail address: europe@neptuneresearch.com

1.4. Emergency telephone number

Emergency telephone number: +44 7807125171 (24 hour Emergency Call)
+844 892 0111 GB: Regional Medicines and Poisons Information Centre
131126 AU: National Poisons Information Network (Australia-wide)

Section 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute toxicity/dermal – Category 4
Skin corrosion/irritation – Category 1B
Skin sensitization – Category 1
Eye damage/irritation – Category 1
Acute toxicity / oral – Category 4
Acute toxicity / inhalation – Category 4
STOT (SE) – Category 3
Hazardous to the aquatic environment-long term (chronic) hazard – Category 3
Reproductive toxicity – Category 2

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

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Hazard pictograms:



Signal word: Danger

Hazard statements:

H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H302 Harmful if swallowed
H332 Harmful if inhaled
H335 May cause respiratory irritation
H412 Harmful to aquatic life with long lasting effects
H361 Suspected of damaging fertility or the unborn child.

Precautionary statement:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other information:

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

Section 3. Composition/ Information on Ingredients

3.1. Substances: Not Applicable

3.2. Mixtures

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Component	EC: EINECS #	CAS #	Weight %	EU-GHS Substance Classification	REACH Number
Benzyl alcohol	202-859-9	100-51-6	25 – 50	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. (H319)	01- 2119492630- 38-xxxx
3-aminomethyl-3,5,5-trimethylcyclohexylamine	220-666-8	2855-13-2	2.5 – 10	Skin Corr. 1C (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	01- 2119514687- 32-xxxx
m-phenylenebis (methylamine)	216-032-5	1477-55-0	2.5 – 10	Skin Corr. 1C (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Sens. 1 (H317) Acute Tox. 4 (H332) Aquatic Chronic 3 (H412)	01- 2119480150- 50-xxxx
Bisphenol A	201-245-8	80-05-7	2.5 – 10	Repr. 2 f (H361) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT SE 3 (H335)	01- 2119457856- 23-xxxx
3-aminopropyl dimethylamine	203-680-9	109-55-7	2.5 – 10	Flam. Liq. 3 (H226) Skin Corr. 1B (H314) Acute Tox. 4 (H302) Skin Sens. 1 (H317)	01- 2119486842- 27-xxxx

Section 4. First Aid Measures

4.1. Description of first-aid measures

First aid measures for accidental

General advice: Instantly remove any clothing soiled by the product.

Inhalation: Take affected persons into the open air and position comfortably. Seek medical treatment in case symptoms persist.

Skin contact: Instantly wash with soap and water and rinse thoroughly. If skin irritation continues, consult a doctor.

Eye contact: Rinse opened eye for several minutes under running water, then consult a doctor.

Ingestion: Do not induce vomiting. Seek immediate medical advice.

Protection of first-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing.

4.2 Most important symptoms/effects, acute and delayed: No particular measures are known - treat according to symptoms.

4.3 Indication of immediate medical attention and special treatment needed: No further relevant information available.

Section 5. Fire Fighting Measures

5.1 Extinguishing media

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Suitable extinguishing media: CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Unsuitable extinguishing media: Water with a full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters: Wear breathing apparatus. Dispose of fire debris and contaminated fire-fighting water in accordance with local regulations.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment: Use personal protective equipment (See Section 8) to prevent any contamination of skin, eyes and personal clothing.

Emergency procedures: Remove ignition sources. Provide sufficient ventilation, control dust. Evacuate personnel to safe areas.

6.1.2 For emergency responders: Use appropriate personal protective clothing. Use gloves and safety glasses.

6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.

6.3. Methods and materials for containment and cleaning up

6.3.1 For containment: Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

6.3.2 For cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.3.3 Other Information: Clear spills immediately.

6.4 Reference to other sections: See Section 13 for additional information. Dispose of in accordance with applicable local and federal environmental control regulations. Section 8 for Personal protective equipment.

Section 7. Handling and Storage

7.1 Precautions for safe handling

Handling: The usual precautionary measures for handling chemicals must be observed. Ensure good ventilation/exhaust at the workplace.

Hygiene measures: When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash thoroughly after handling.

7.2 Conditions for safe storage including any incompatibilities: Store only in unopened original containers. Provide floor trough without outlet. Store away from foodstuffs. Keep container tightly sealed.

7.3 Specific end use(s)

Exposure scenario: No information available.

Other guidelines: No information available

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Section 8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits (UK-EH40):

Component	Exposure Limits		Remarks
	TWA	STEL	
Bisphenol A	8hr - 10 mg/m ³ (inhalable dust)	15 min STEL (No value listed)	Where no Short term Value is given, a value three times the TWA should be used

Derived no effect level: No information available.

Predicted No Effect Concentration (PNEC): No information available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas.

8.2.2 Personal protective equipment

8.2.2.1 Eye and face protection: Tightly sealed safety glasses. Recommended filter device for short term use is Combination filter A-P2.

8.2.2.2 Skin protection: Wear plastic gloves. Only use chemical-protective gloves with CE-labelling of category III. To minimize the wetness in the glove due to perspiration changing of gloves during a shift is required. Check the permeability prior to each renewed use of the glove. Preventive skin protection by use of skin-protecting agents is recommended. Recommended material of glove is nitrile rubber, fluorocarbon rubber (Viton). Wear protective work clothing.

8.2.2.3 Respiratory protection: Use breathing protection in case of insufficient ventilation.

8.3 Environmental exposure controls: Do not allow material to contaminate ground water system.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State:	Liquid
Appearance:	Yellowish
Odour:	Amine like
Odour threshold:	No data available

<u>Property</u>	<u>Values</u>	<u>Remarks-Method</u>
pH:	No data available	None known
Melting point range:	No data available	None known
Boiling point/boiling range:	135 °C	None known
Flash Point:	86 °C	None known
Evaporation rate:	No data available	None known
Flammability (solid, gas):	No data available	None known
Upper/lower flammability limits:	1.3% to 13% v/v	None known
Vapour pressure:	0.3 hPa at 20°C	None known
Vapour density:	No data available	None known
Relative density:	1.02 g/cm ³ at 23°C	ISO 2811-2

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Solubilities:	Not miscible or difficult to mix	None known
Partition coefficient (n-octanol/water):	No data available	None known
Auto-ignition temperature:	380 °C	None known
Decomposition temperature:	No data available	None known
Viscosity, dynamic at 25 °C:	600-1400mPas	ISO 3219
Explosive properties:	No data available	None known

9.2 Other information

No further relevant information available.

Section 10. Stability and Reactivity

10.1 Reactivity: Stable

10.2 Chemical stability: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: Reacts with strong oxidizing agents, alkali, amines and acids

10.4 Conditions to avoid: No further relevant information available

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: None, if stored and handled correctly. In the event of fire will form poisonous and corrosive gases/vapours.

Section 11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity:

Component	Oral LD50	Dermal LD50	Inhaled LC50
Benzyl alcohol (100-51-6)	1,040 mg/kg (mouse) 1,230 mg/kg (rabbit) 1,040 mg/kg (rat)	DNEL worker: 9.5mg/kg/bw/d 2000 mg/kg (rabbit)	DNEL worker: 90 mg/m ³
3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	1030 mg/kg (rat)	1840 mg/kg (rabbit) >2000 mg/kg (rat)	20.1 mg/m ³
m-phenylenebis (methylamine) (1477-55-0)	930 mg/kg (rat)	2000 mg/kg (rabbit)	2.4mg/l (rat, 4 hours)
Bisphenol A (80-05-7)	3250 mg/kg (mouse)	DNEL worker: 9.5mg/kg/bw/d 2000 mg/kg (rabbit)	DNEL worker: 10 mg/m ³ >5mg/l (rat, 4 hours)
3-aminopropyl dimethylamine (109-55-7)	1600 mg/kg (rat)	2139 mg/kg (rabbit) 1200 mg/kg (rat)	4.31mg/l (rat, 4 hours)
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	1670 mg/kg (rat)	1242 mg/kg (rabbit)	N/A

Primary route of entry:

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Skin: Caustic effect on skin and mucous membranes

Eye: Strong caustic effect

Chronic Effects:

Sensitisation: May cause sensitisation by skin contact

Mutagenicity: No data available.

Carcinogenicity: No data available

Reproductive Toxicity: No data available

Specific Target Organ Toxicity - single exposure (STOT-se): No data available

Specific Target Organ Toxicity - repeated exposure (STOT-re): No data available

Delayed and immediate effects and also chronic effects from short and long-term exposure:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

- Harmful
- Corrosive
- Irritant.

Section 12. Ecological Information

12.1 Toxicity:

Component	Aquatic Toxicity
Benzyl alcohol (100-51-6)	Algae: 79 mg/l (Scenedesmus quadricauda) (EC50(3h)) 640 mg/l (Alge Scenedesmus sp.) (EC50(96h)) Bacteria: >658 mg/l (Pseudomonas putida) (EC50(16h)) 71.42 mg/l (Photobacterium phosphoreum) (EC50(0,5h)) 400 mg/l (Pseudomonas putida) (EC50(0,5h)) Daphnia: 400 mg/l (Daphnia magna) (EC50(24h)) Fish: 460 mg/l (Fish) (LC50(96h)) 645 mg/l (Orfe) (LC50(96h)) 10 mg/l (Lepomis macrochirus) (LC50 (96h)) PNEC: 1 mg/l (Freshwater) 0.1 mg/l (Seawater)
3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	Algae: 50 mg/l (Scenedesmus subspicatus) (EC50(72h)) Bacteria: 1120 mg/l (Pseudomonas putida) (EC10(18h)) Daphnia: 23 mg/l (Daphnia magna) (EC50(48h)) Fish: 110 mg/l (Leuciscus idus) (LC50(96h)) 0.06 mg/l (Freshwater) PNEC: 0.006 mg/l (Seawater)

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m-phenylenebis (methylamine) (1477-55-0)	Algae: 12 mg/l (Scenedesmus subspicatus) (EC50(72h)) Daphnia: 16 mg/l (Daphnia magna) (EC50(48h)) Fish: >100 mg/l (Rainbow Trout) (LC50(96h))
Bisphenol A (80-05-7)	Algae: <10 mg/l Fish: 42 mg/l (Fish) (EC50(96h)) PNEC: 0.018 mg/l (Freshwater) 0.016 mg/l (Seawater)
3-aminopropyl dimethylamine (109-55-7)	Algae: 56.2 mg/l (Scenedesmus subspicatus) (EC50(72h)) Bacteria: 95 mg/l (Pseudomonas putida) (EC50(17h)) >1000mg/l (Activated sludge) (EC50(0.5h)) Daphnia: 44.5 mg/l (Daphnia magna) (EC50(24h)) Fish: 122 mg/l (Leuciscus idus) (LC50(96h))
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	Fish: 222 mg/l (Rainbow Trout) (LC50(24h)) 750 mg/l (Mangrove Crab) (LC50(96h)) 718 mg/l (Carp) (LC50(96h))

12.2 Persistence and degradability: No information available.

12.3 Bioaccumulative potential: No information available.

12.4 Mobility in soil: No information available.

12.5 Results of PBT and vPvB Assessment: Not applicable.

12.6 Other adverse effects: No information available.

12.7 Additional information:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil

Section 13. Disposal Considerations

13.1 Waste treatment methods:

13.1.1 Product / Packaging disposal: For disposal, local regulations issued by the authorities must be observed. Dispose of liquid components at a suitable incineration plant. After curing, the product can be disposed of with household waste. Dispose of uncleaned package according to local regulations.

13.1.2 Waste treatment-relevant information:

European waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 02 00	Wastes from MFSU of other coatings (including ceramic materials)
08 02 99	Wastes not otherwise specified

13.1.3 Sewage disposal-relevant information: This product should not be allowed to enter drains, water courses or the soil.

13.1.4 Other disposal recommendations: Not relevant information.

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Section 14. Transport Information

ADR/IMDG/ IATA

14.1 Proper Shipping Name:

ADR, IMDG, IATA: UN2735

14.2 UN Proper Shipping Name:

ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
IMDG	AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))

14.3 Transport hazard class: Not applicable

ADR	Class: 8 (C7) Corrosive substances Label: 8
IMDG	Class: 8 Corrosive substances Label: 8
IATA	Class: 8 Corrosive substances Label: 8

14.4 Packing group:

ADR, IMDG, IATA: III

14.5 Environmental hazard: Product contains environmentally hazardous substances: epoxy resin.

Marine pollutant: No

14.6 Special precaution:

Warning: Corrosive substances

Kemler Number: 80

EMS Number: F-A-S-B

Segregation groups: Alkalis

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Transport Additional Information (ADR):

Excepted quantities (EQ): E1

Limited quantities (LQ): 5L

Transport category: 3

Tunnel restriction code: E

UN "Model Regulation": UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, III

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Section 15. Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out

Section 16. Other Information

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

OSHA – Occupational Safety and Health Administration

These data are based on present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H302 Harmful if swallowed

H332 Harmful if inhaled

H335 May cause respiratory irritation

H412 Harmful to aquatic life with long lasting effects

H361f Suspected of damaging fertility or the unborn child.

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not as product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. NRI makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. NRI assumes no responsibility for injury from the use of the product described herein. The information is intended only to assist in the safe handling of this material.

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